

FIGURE 1

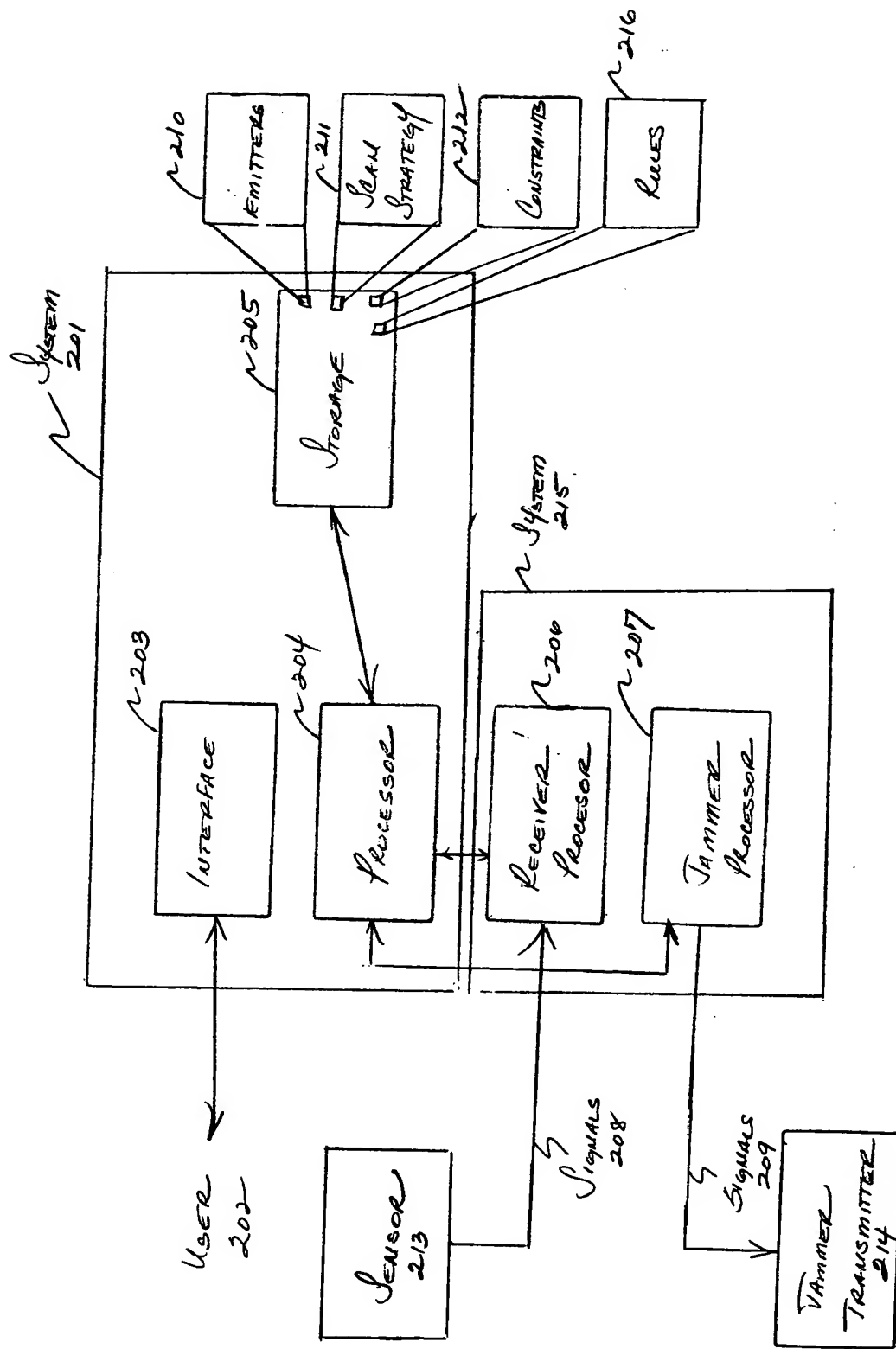
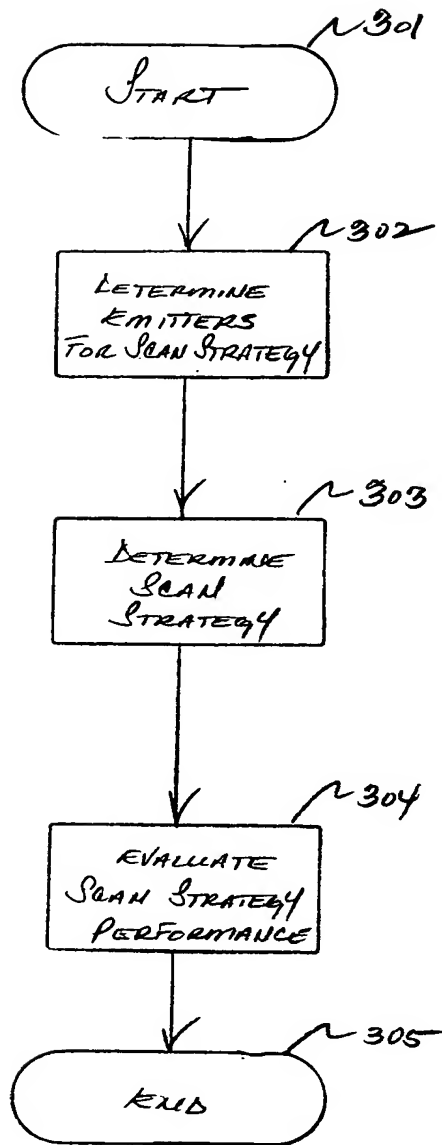


Figure 2



PROCESS
300

FIGURE 3

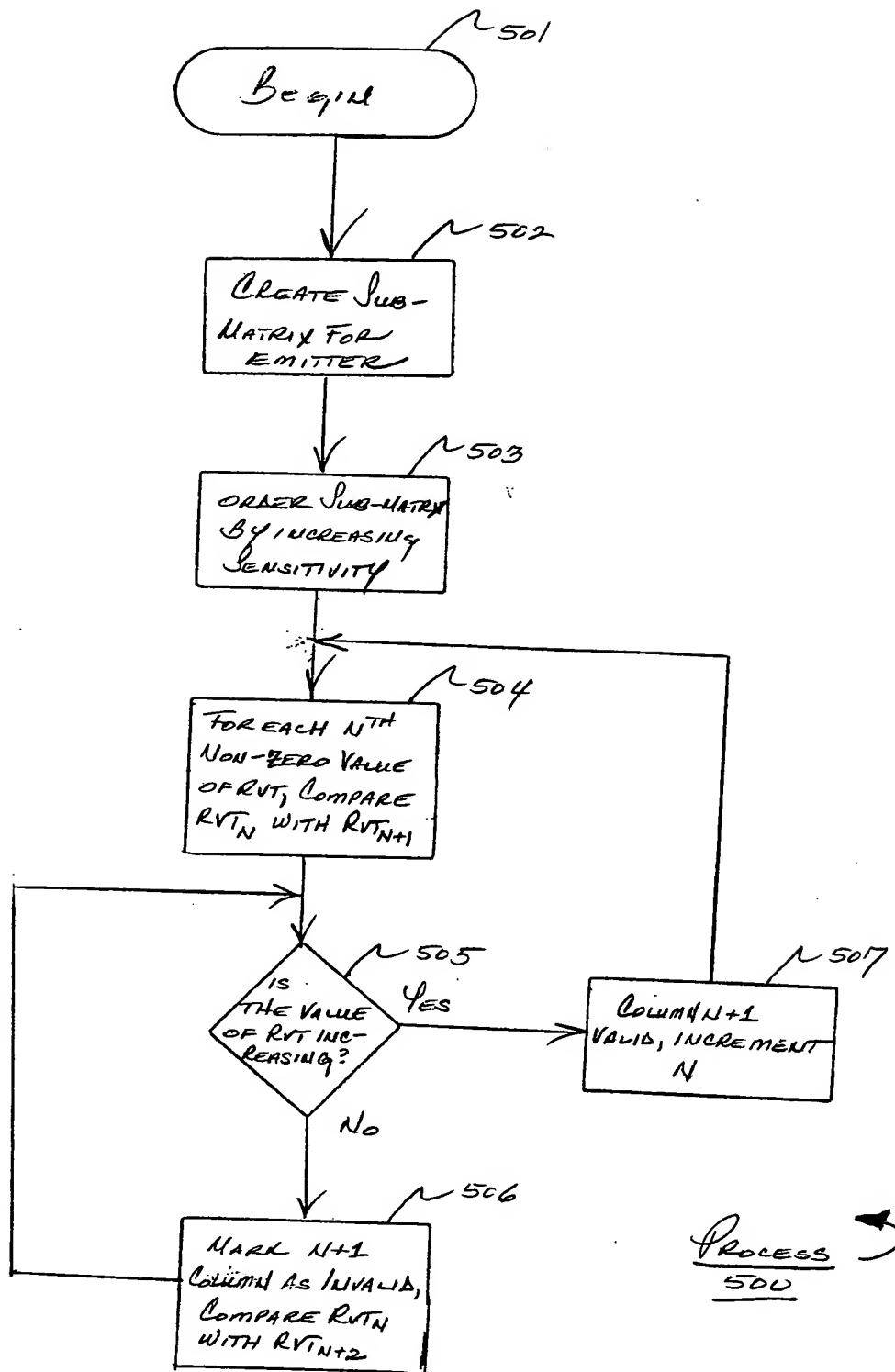


FIGURE 5

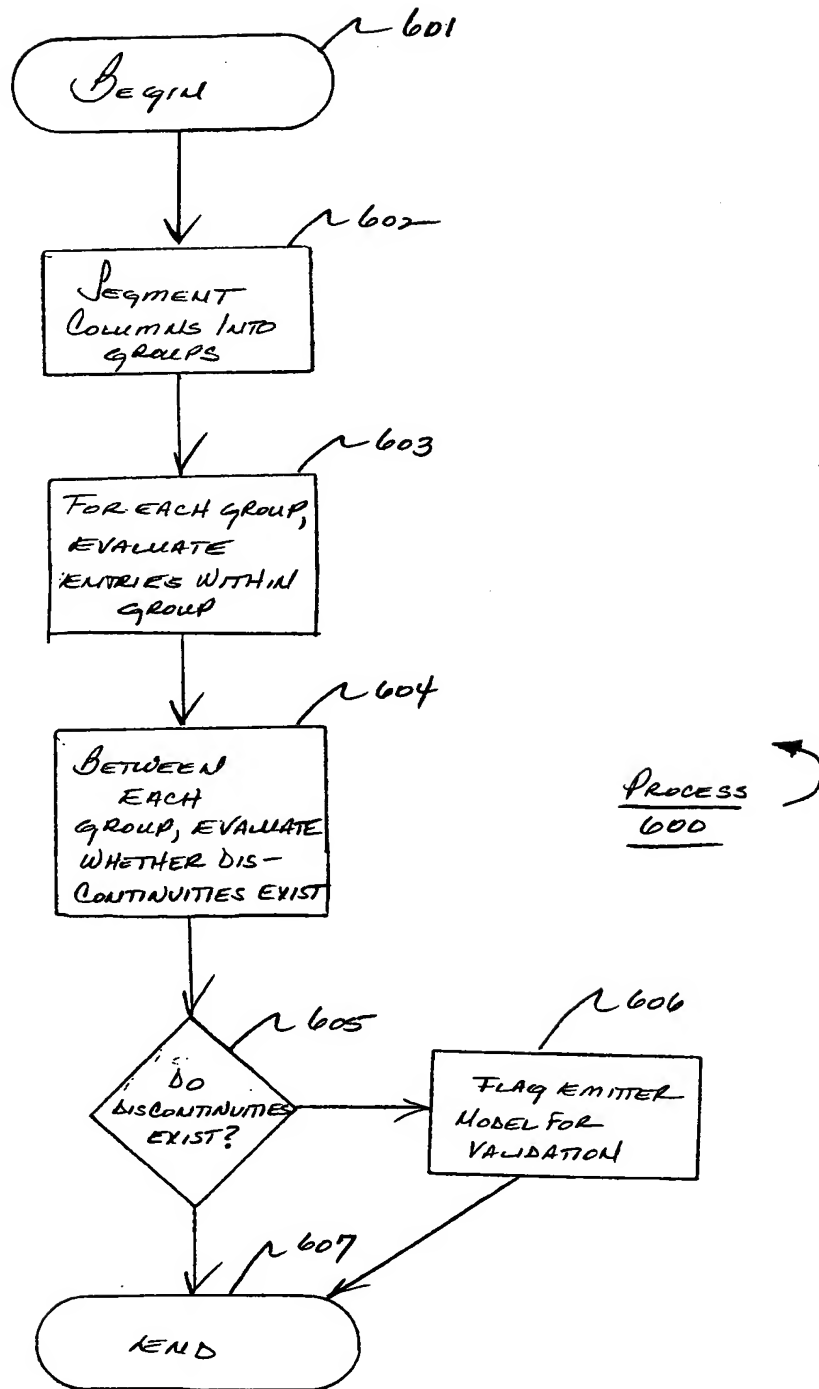


FIGURE 6

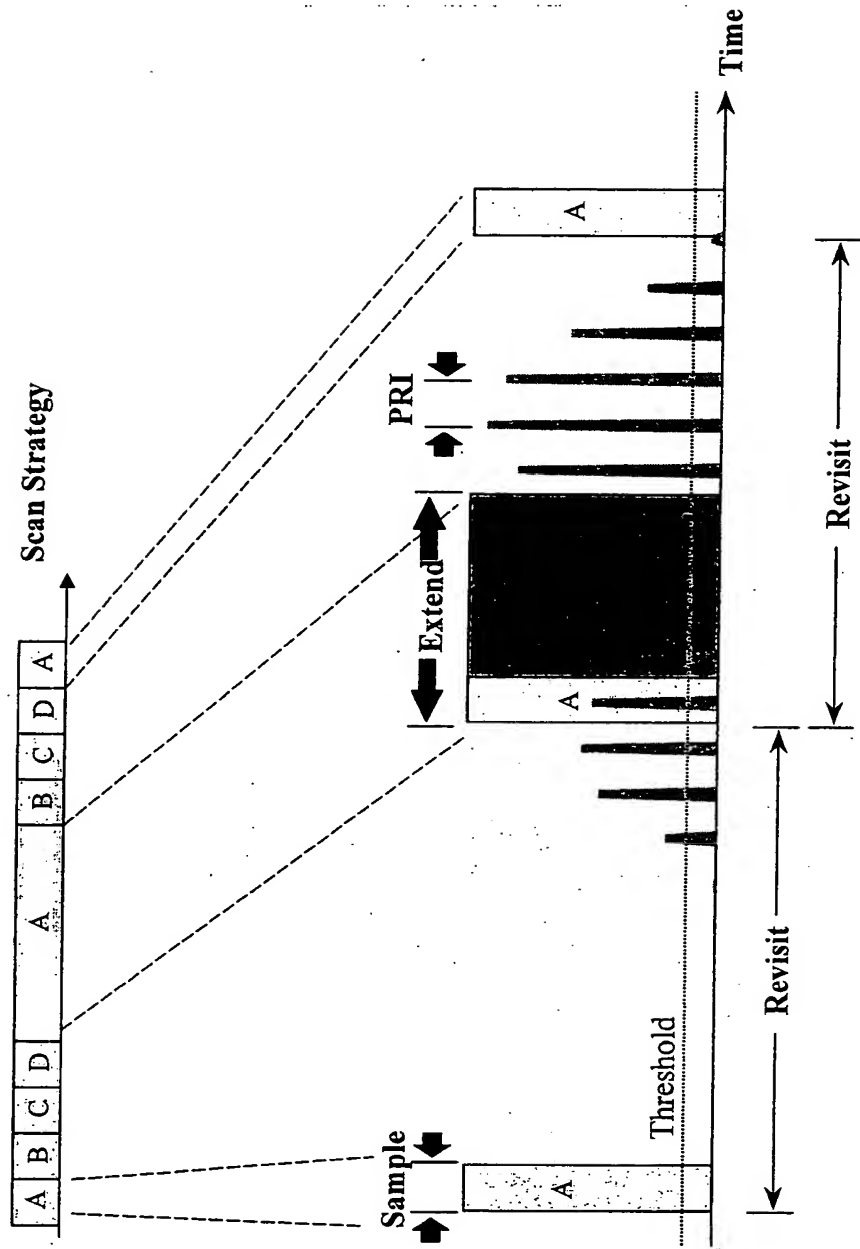


Figure 7

Figure 8A

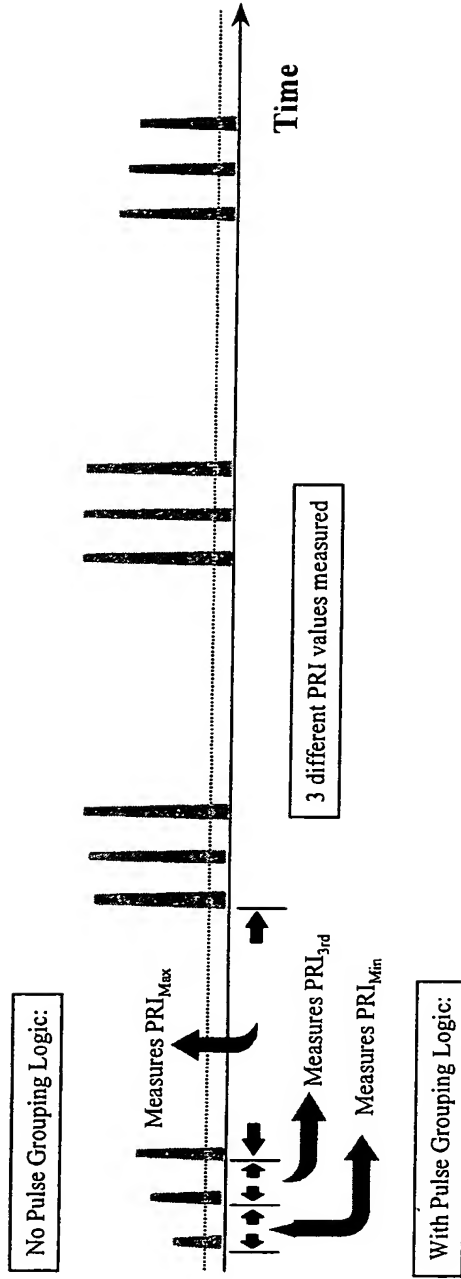
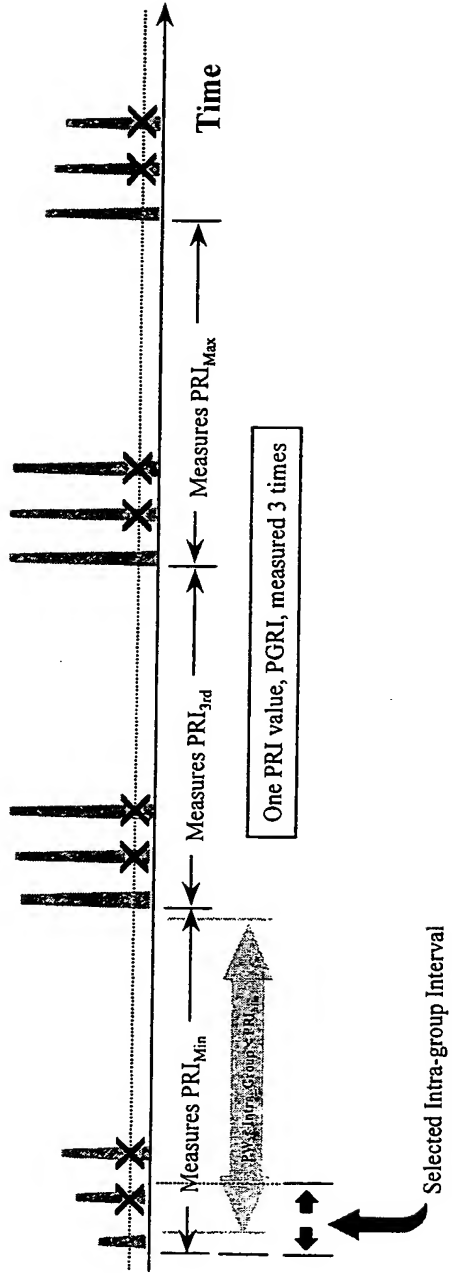


Figure 8B



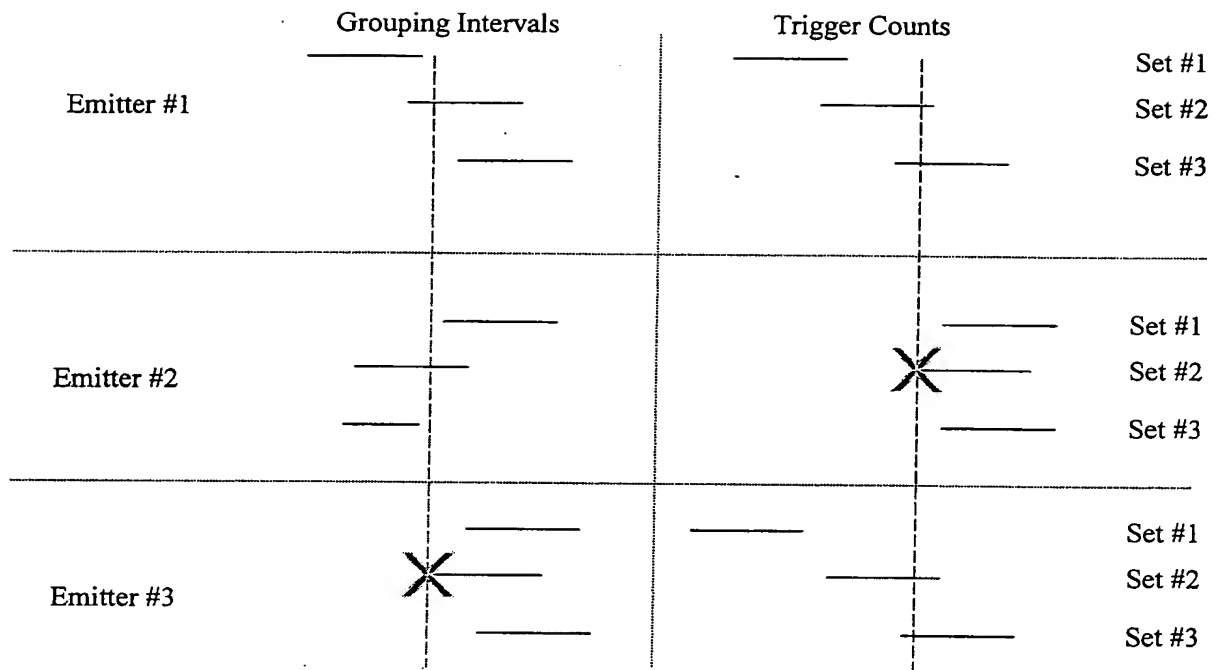
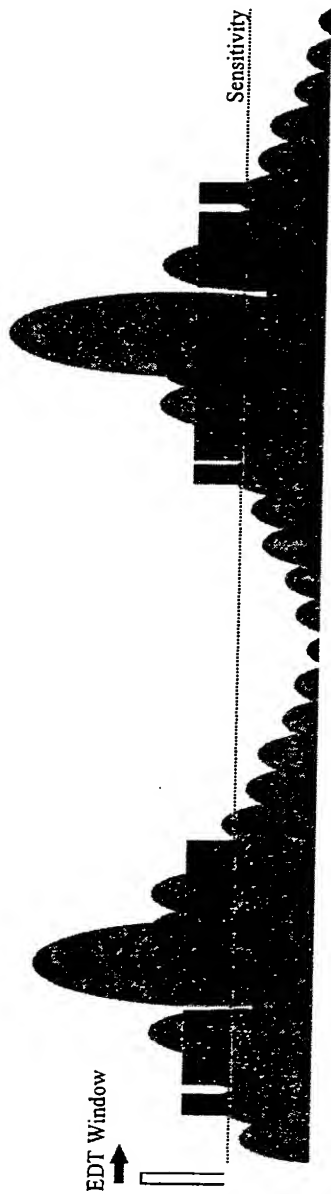


Figure 9

Figure 10A



Discrete Illuminations (TIBS)

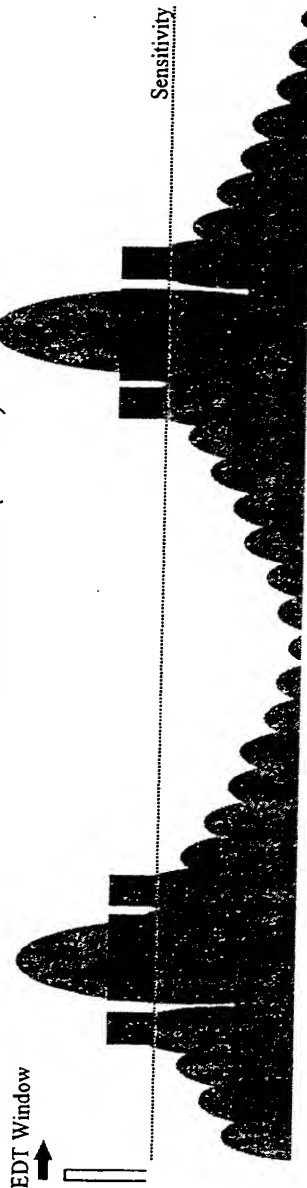


Figure 10B

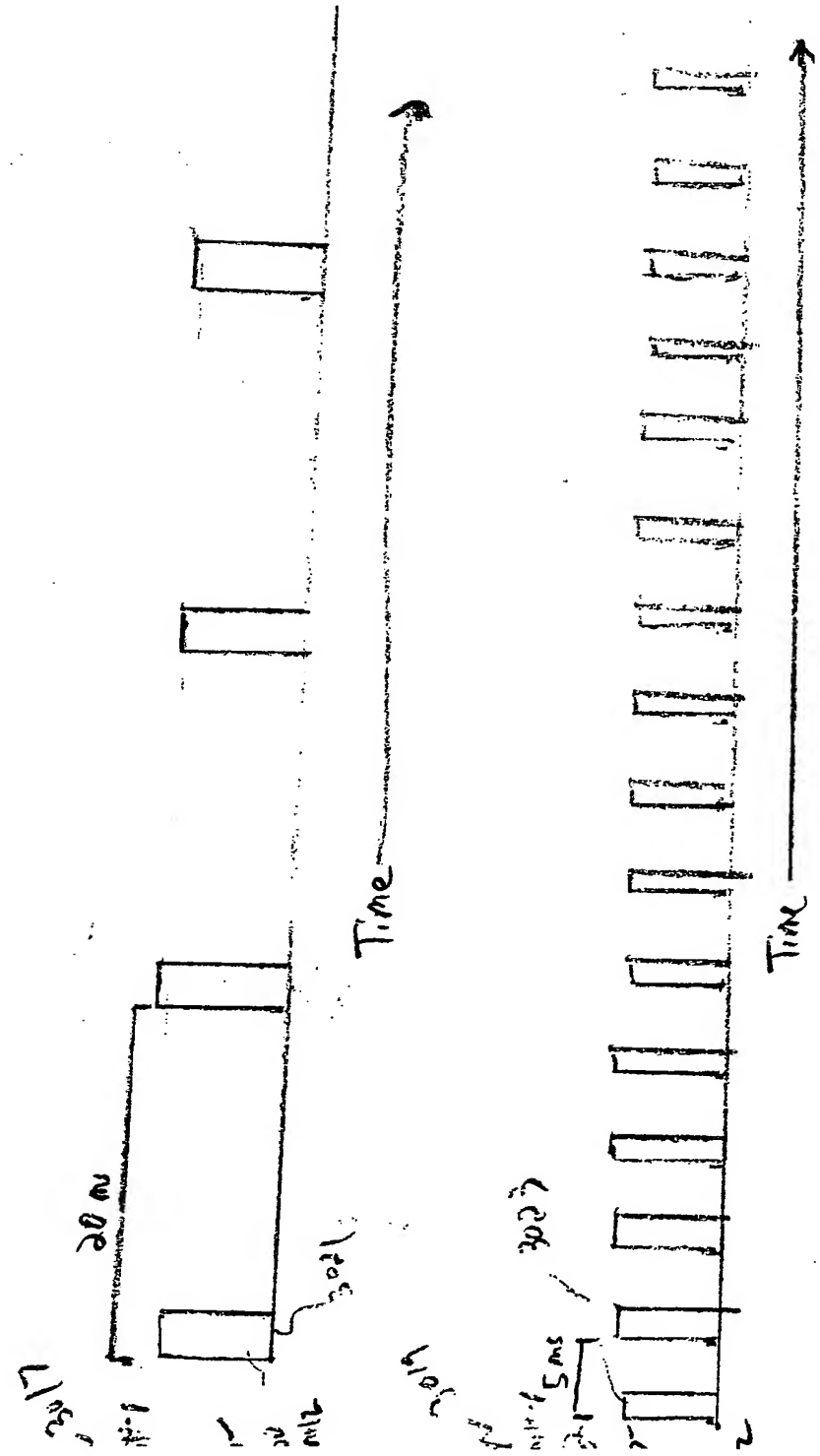
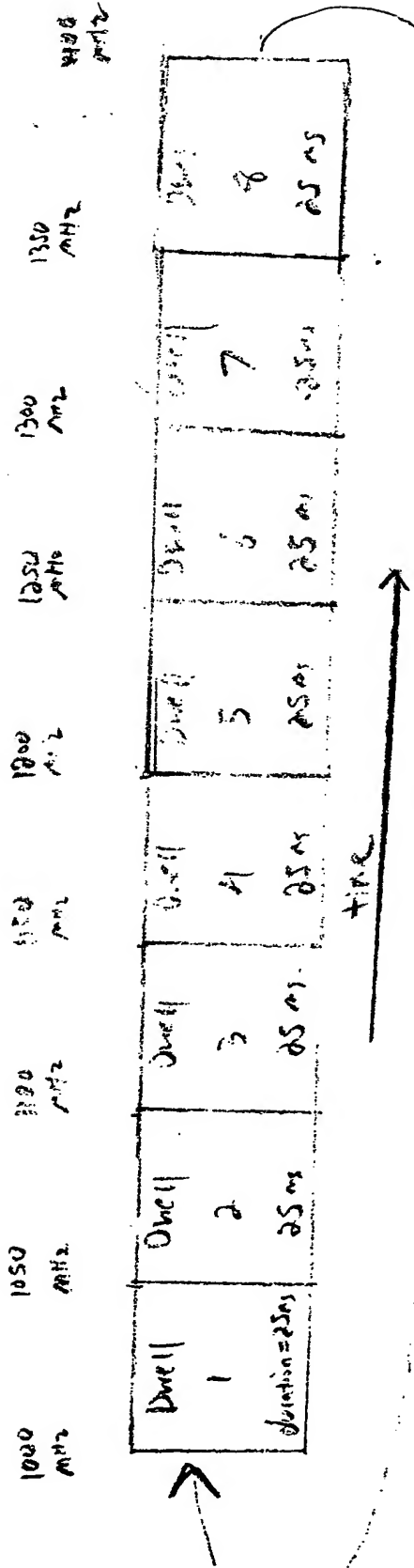
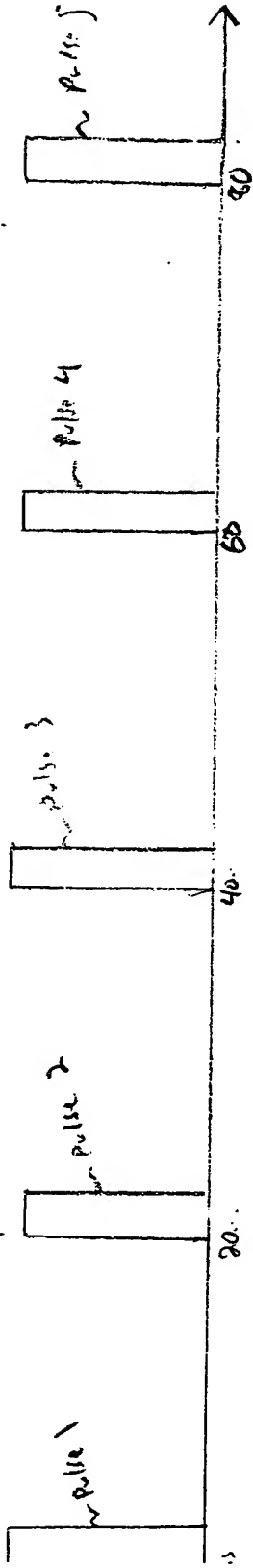
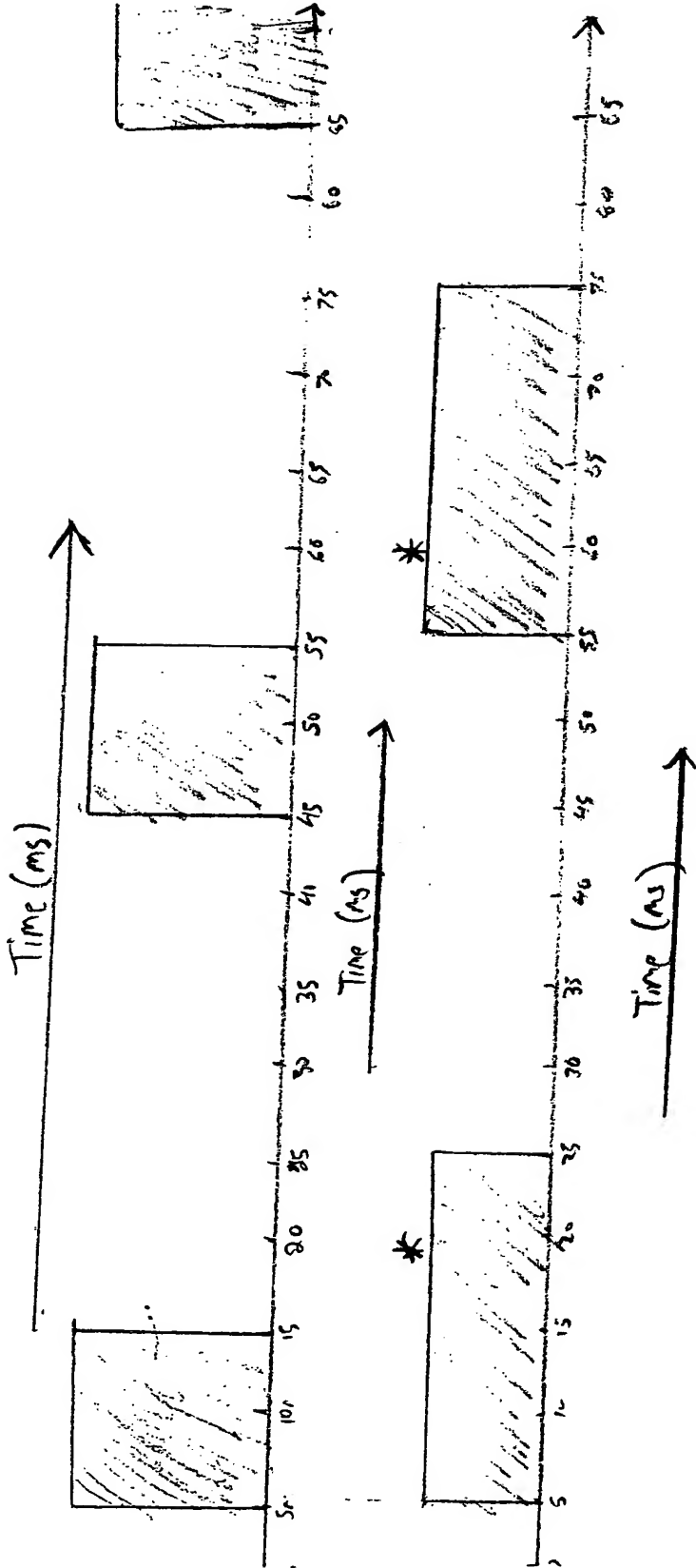


Figure 11

PRI = 20 μ s



Emitter 3101



Solution 1
Drill Duration = 12 μ s
Reset Time = 40 μ s

Solution 2
Drill Duration = 20 μ s
Reset Time = 50 μ s

Figure 12

4000

Emitter name	Switching MHz		RF min (MHz)	RF max (MHz)	MDT (ms)
	250 MHz JFET 15 MHz VDM	30 MHz JFET 15 MHz VDM			
E1	RVT 100 ns	RVT 650 ns	1000	1300	3
E2	100 ns	780 ns	1220	1350	5
E3	110 ns	330 ns	1510	1910	2
E4	130 ns	390 ns	1730	1860	4

Figure B

1000 e 1251

Dwell 1

$$DD_{\max} = 5$$
$$RVT_{min} = 100$$
$$\text{Cost} = 5\% = .05$$

Solution

Solution 2

	1080	1060	1040	1120	1150	1200	1250	1270
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DD max	DD max	DD max	DD max	DD max	DD max	DD max	DD max	DD max
3	3	3	3	3	3	3	5	5
RVT max	RVT max	RVT max	RVT max	RVT max	RVT max	RVT max	RVT max	RVT max
650	650	650	650	650	650	650	650	650
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
3/660	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	3/650 + 3/650	5/650 + 3/650	5/650 + 3/650

$$\frac{31}{650} \approx .048$$

Figure 74A

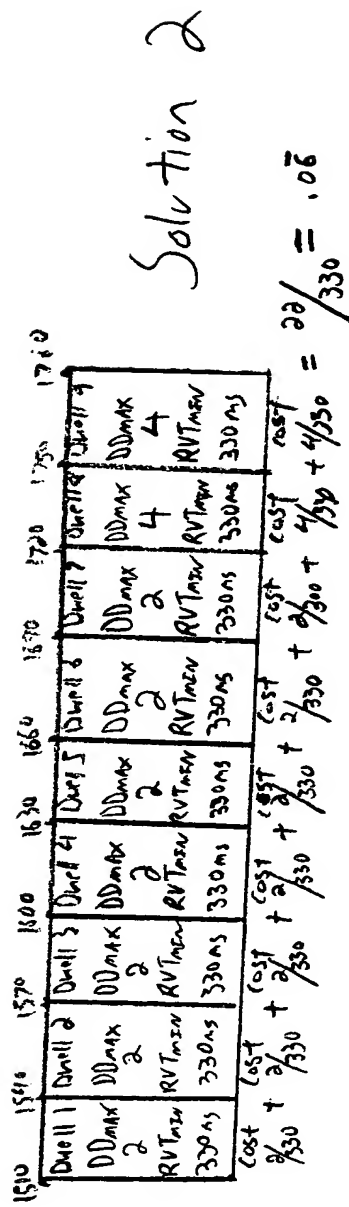
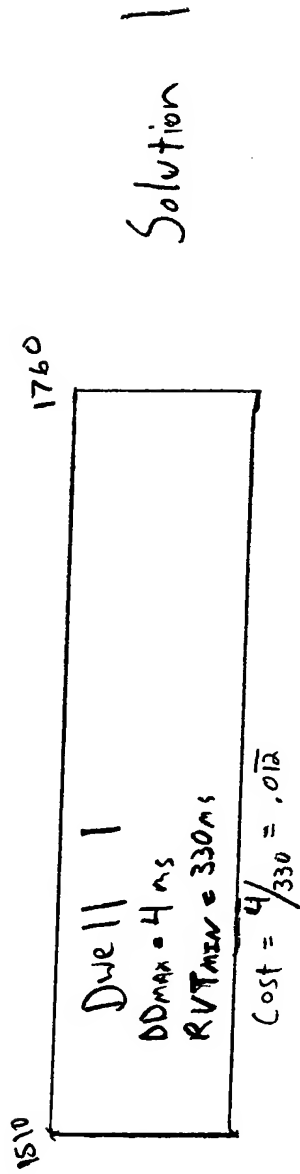


Figure 14B

Figure 15

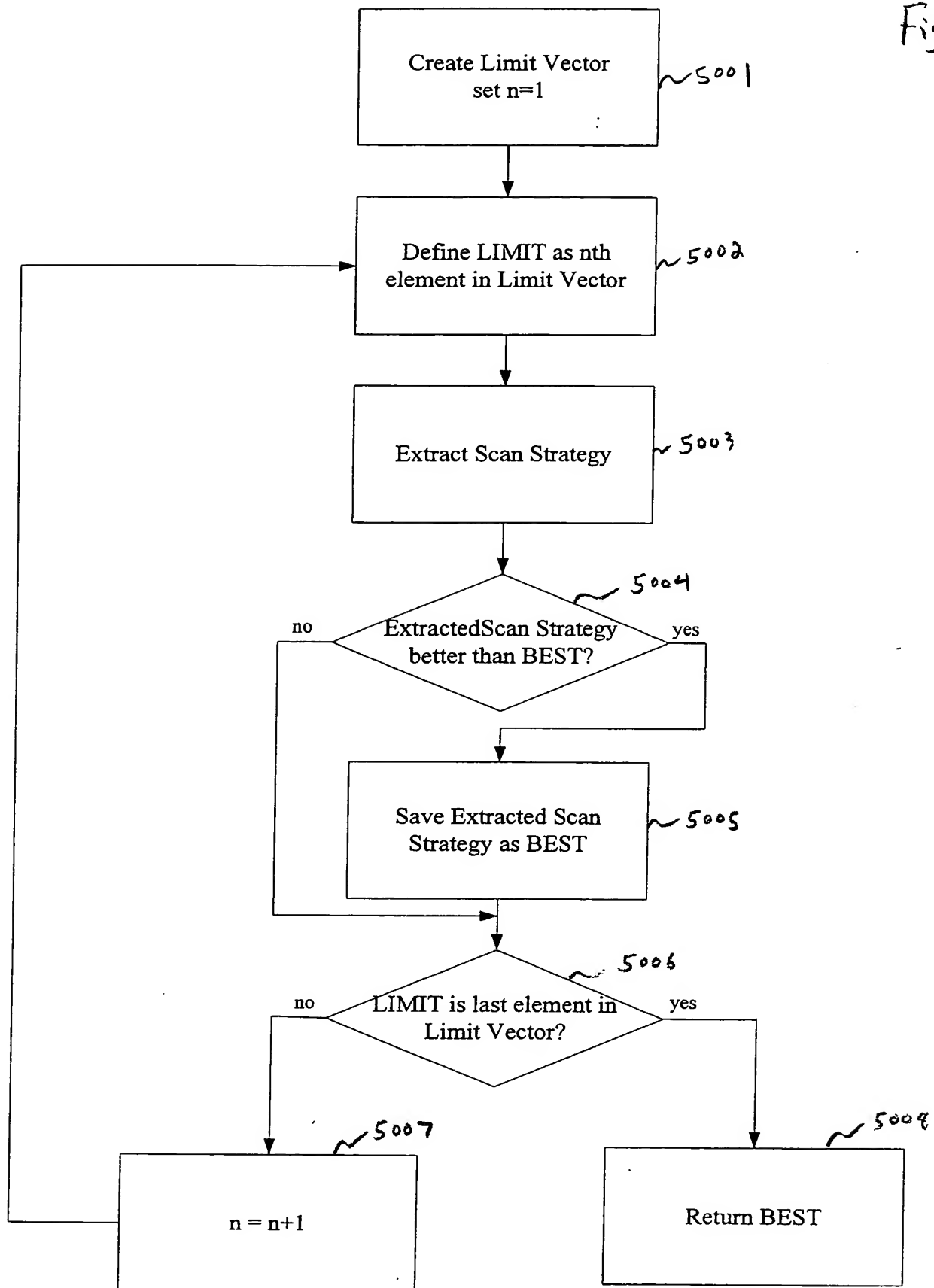
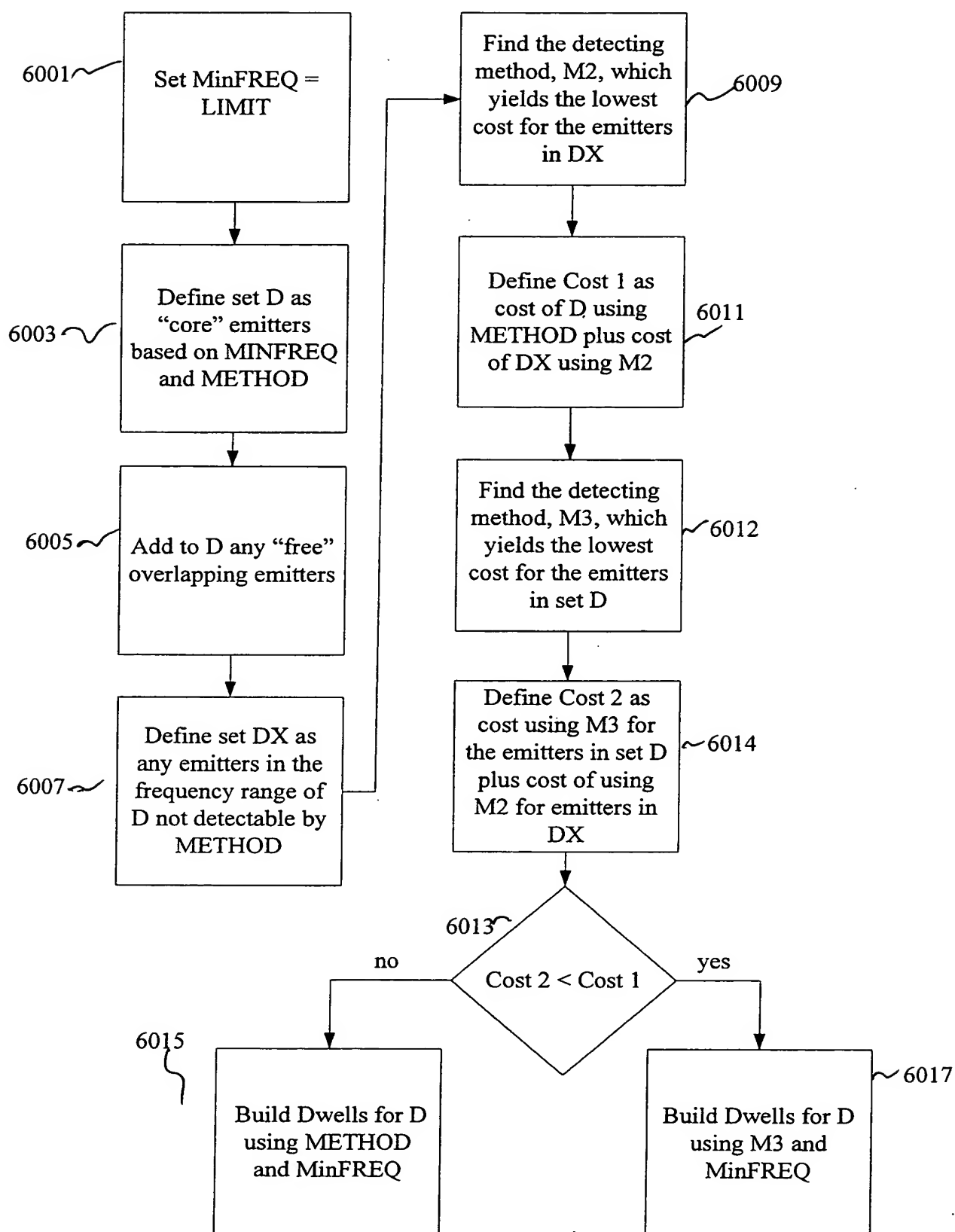


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

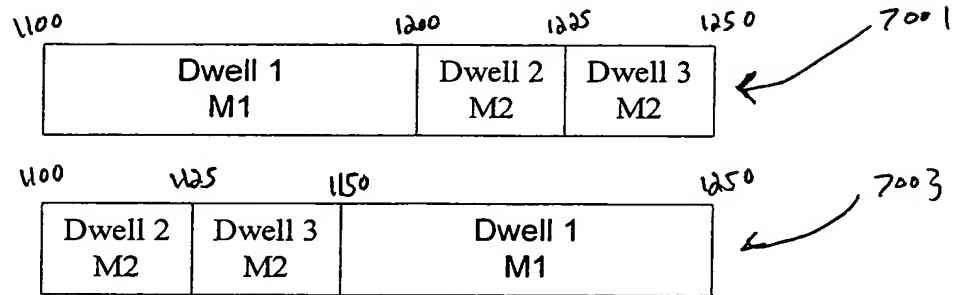
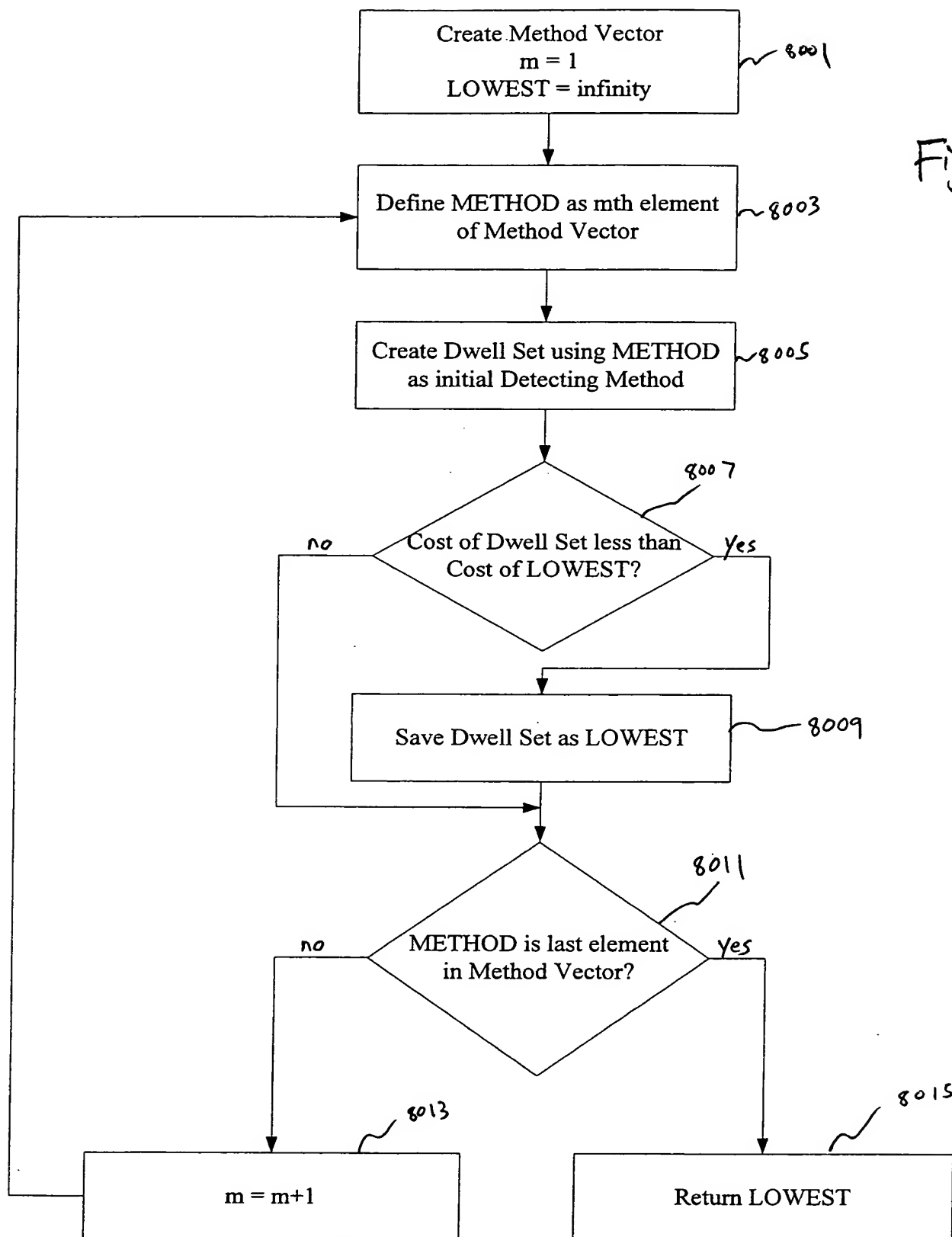


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

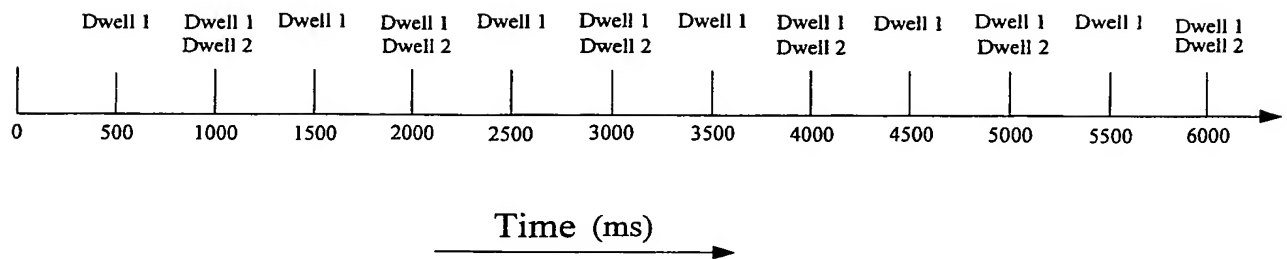


Figure 21

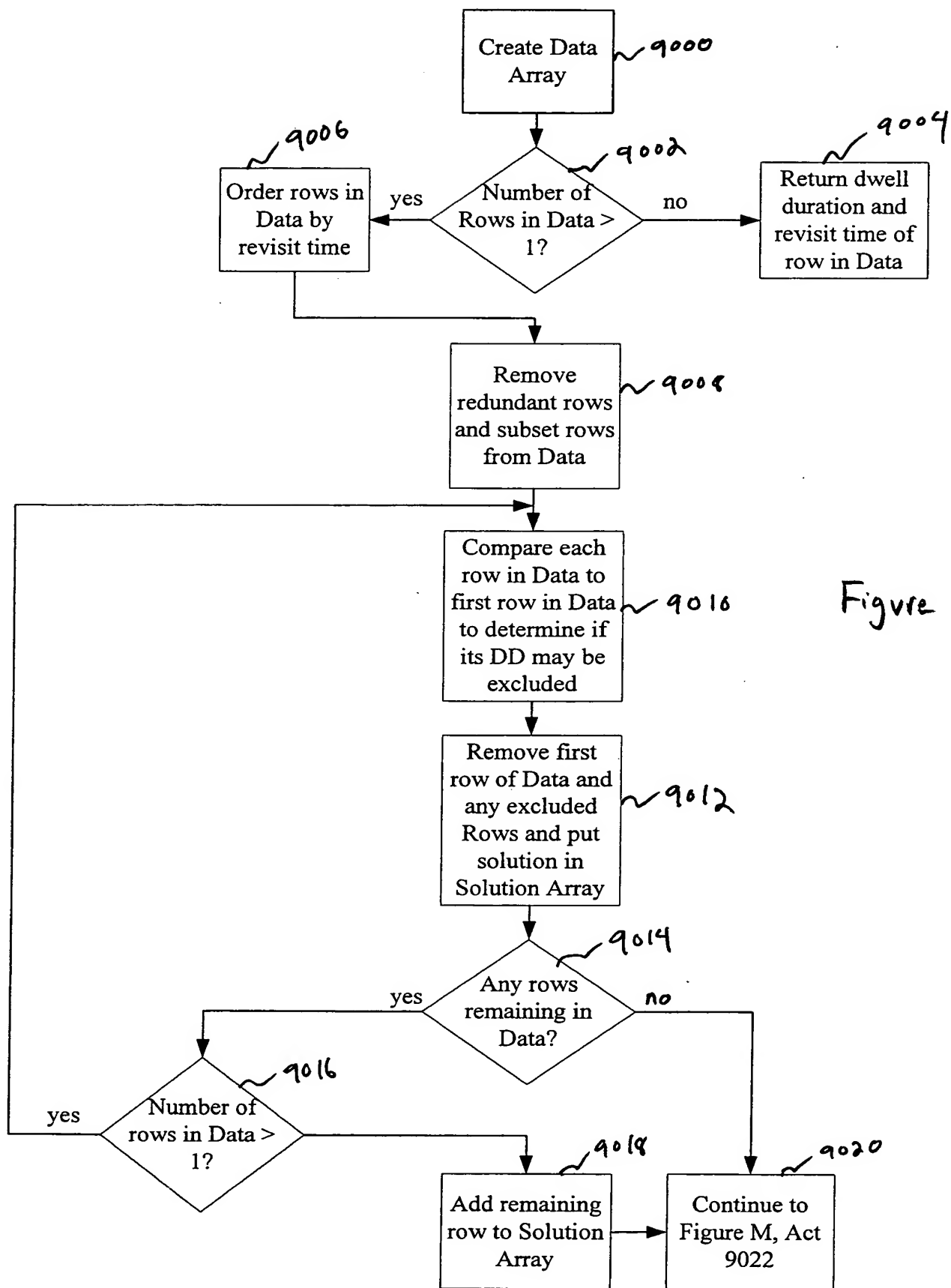


Figure 22

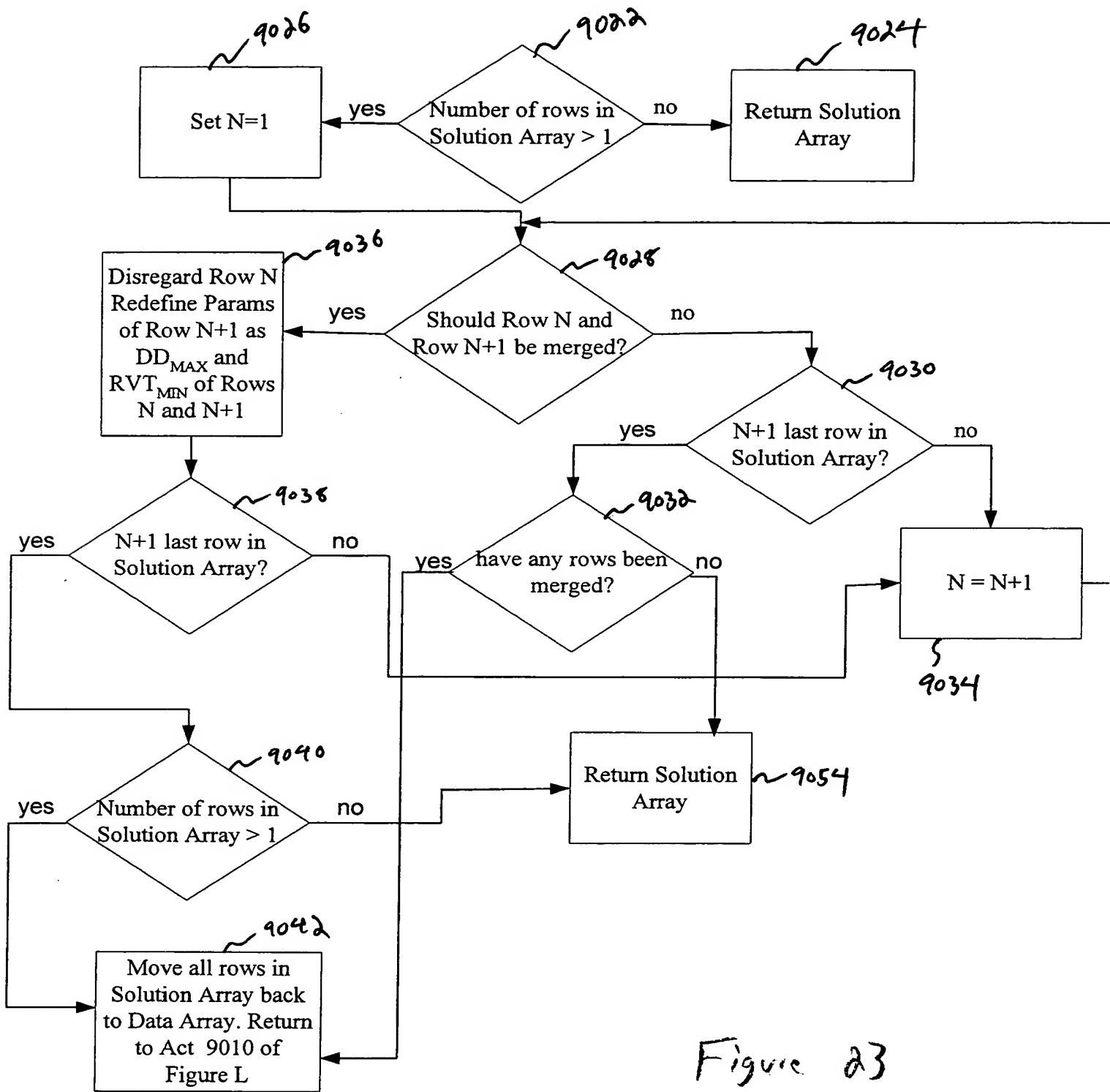


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
9049
9050

Figure 24B

9051
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

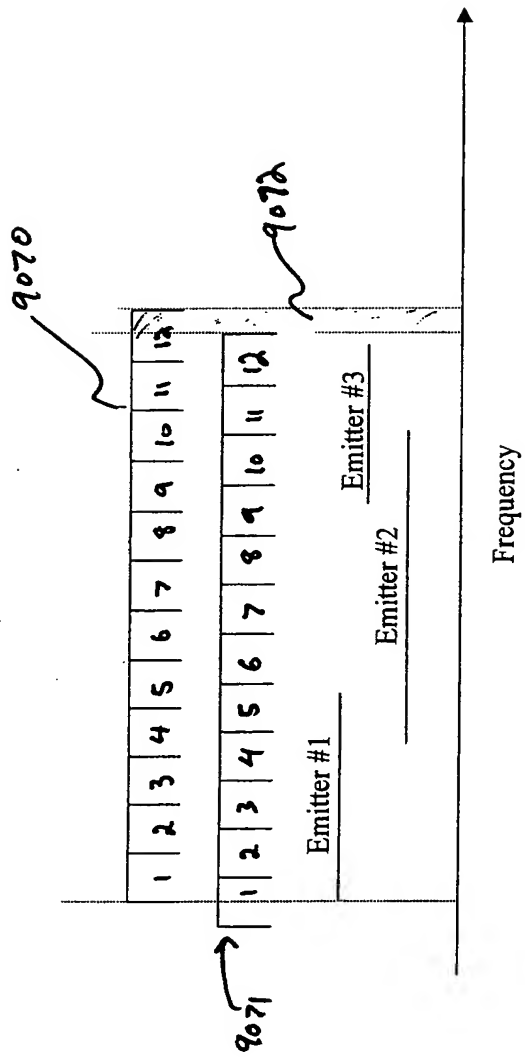


Figure 25

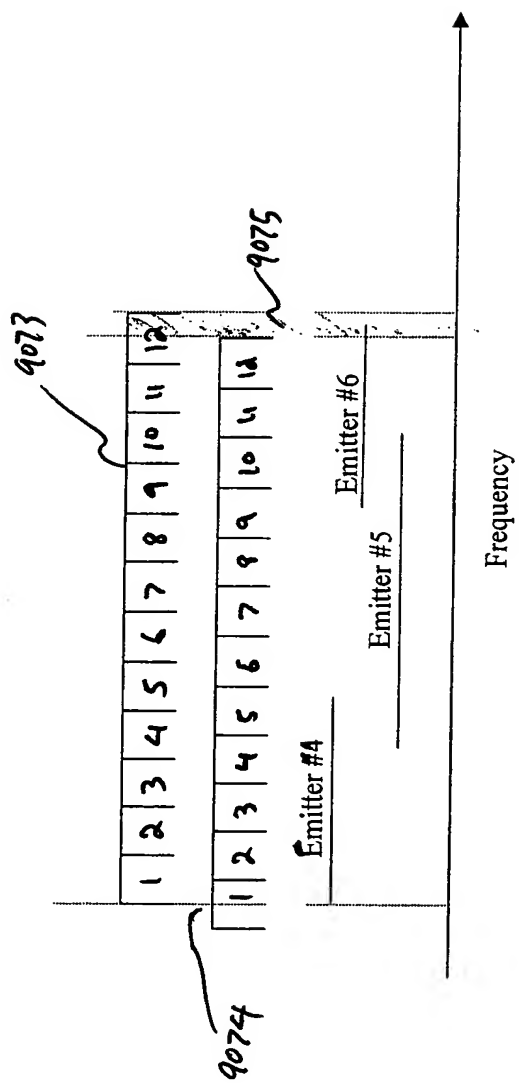


Figure 26

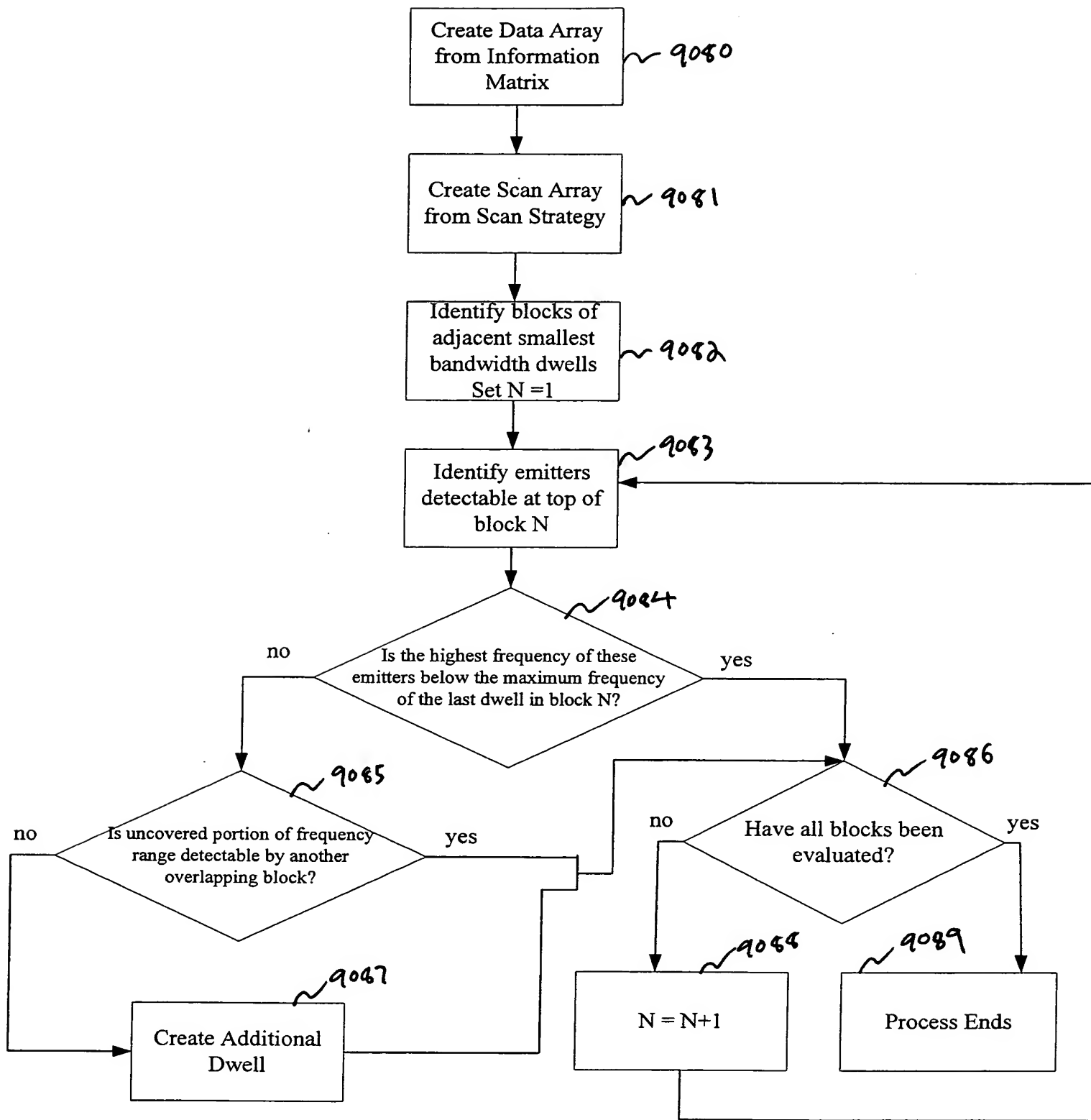


Figure 27

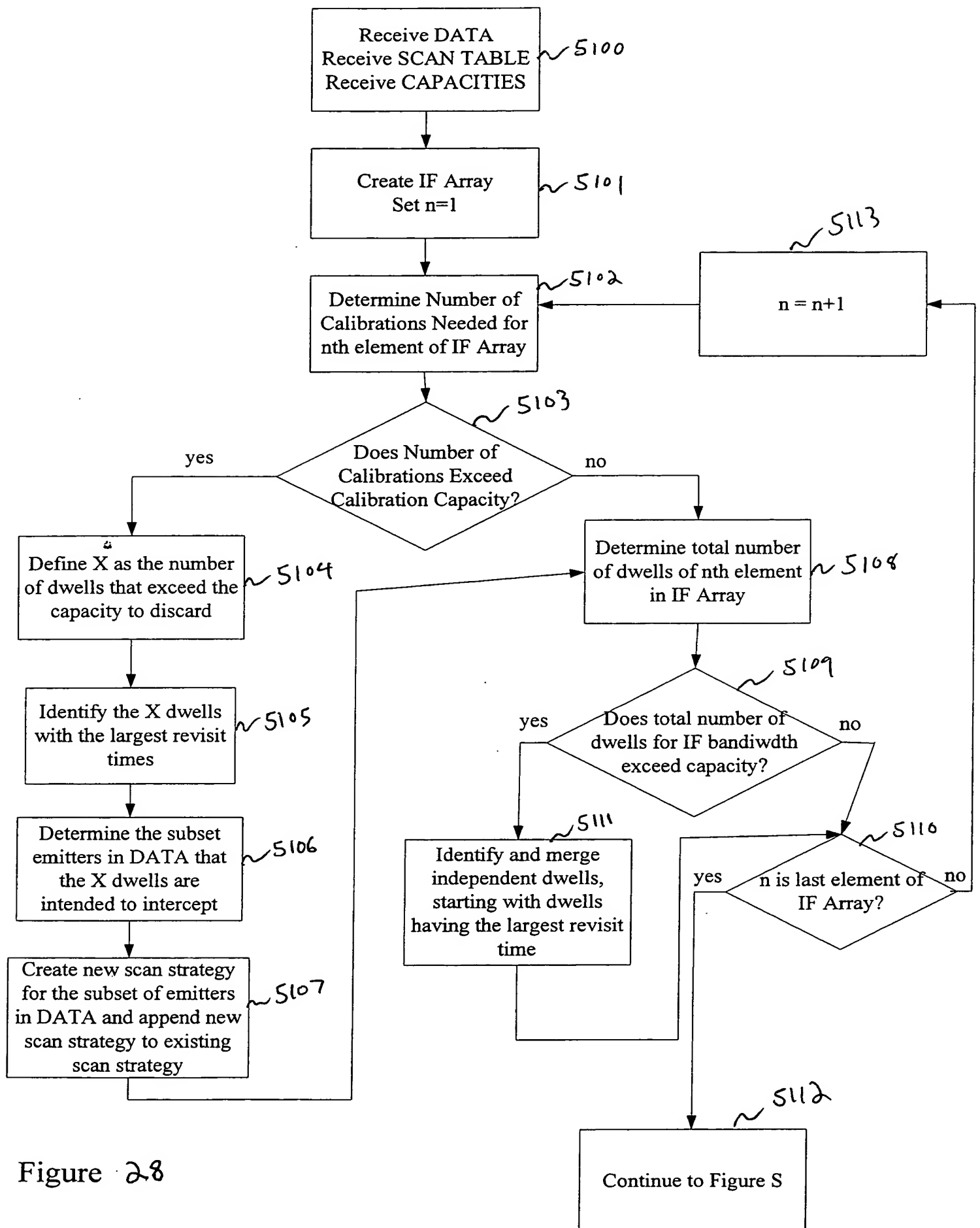


Figure 28

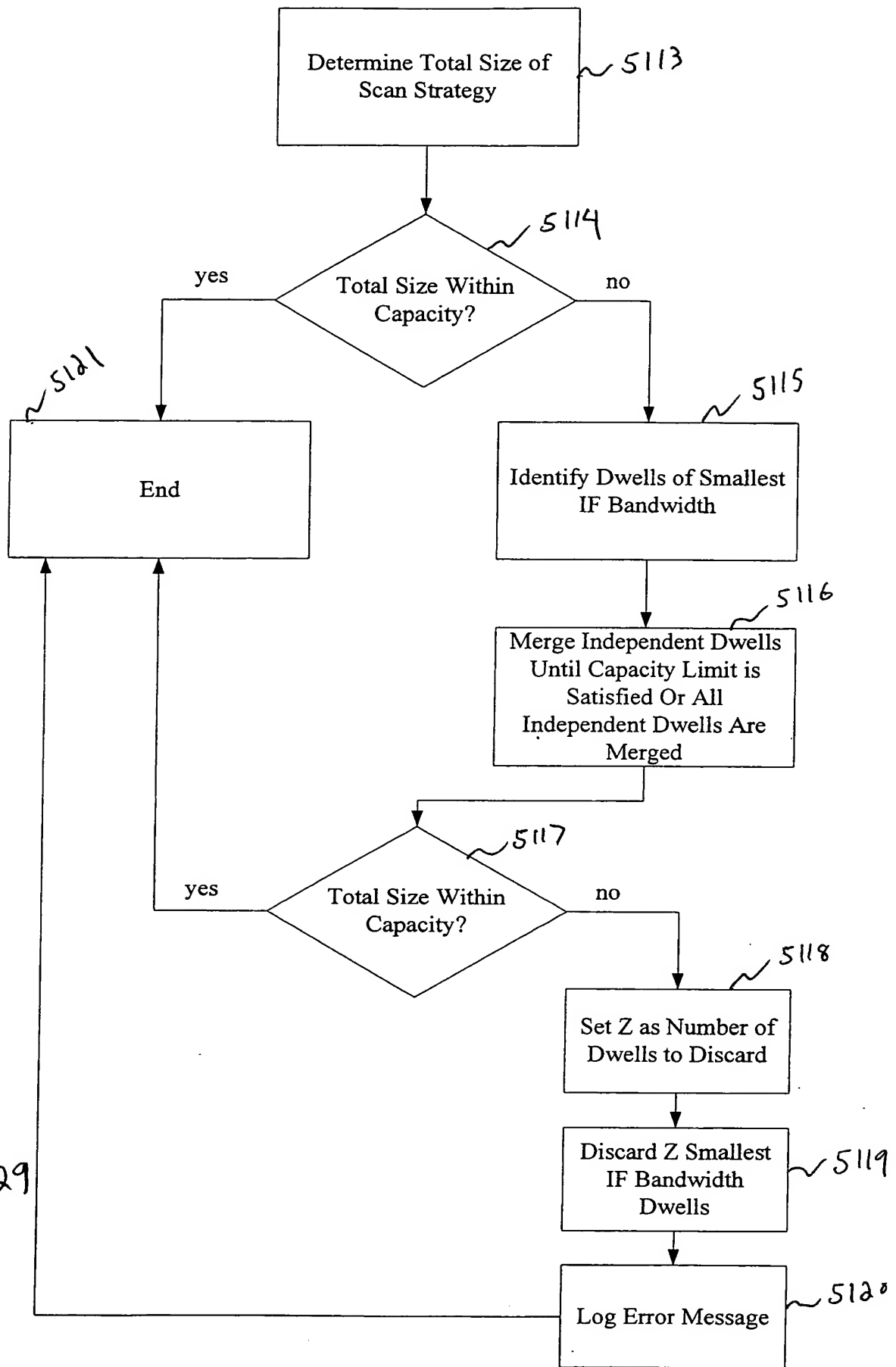


Figure 29

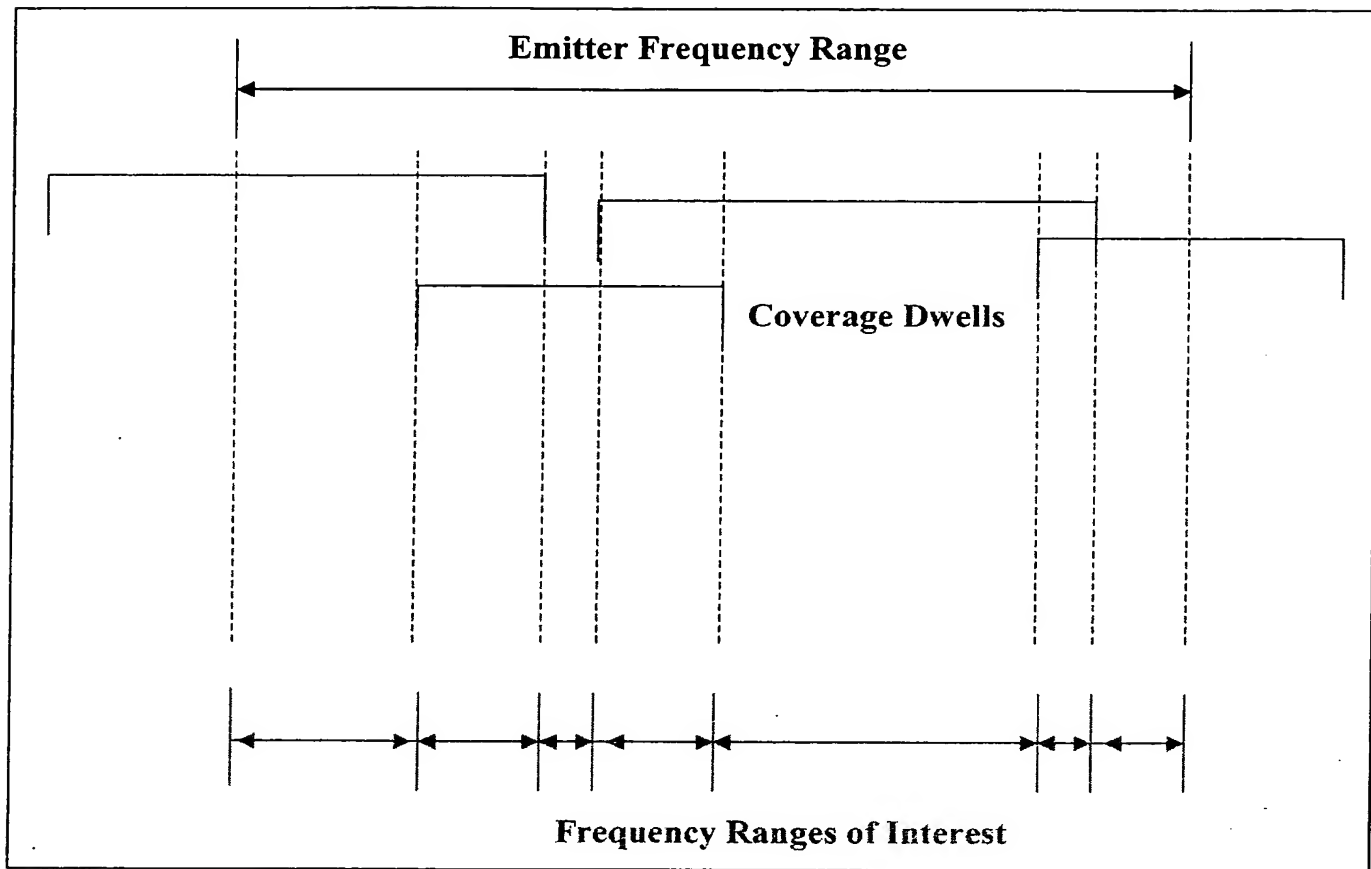


Figure 30

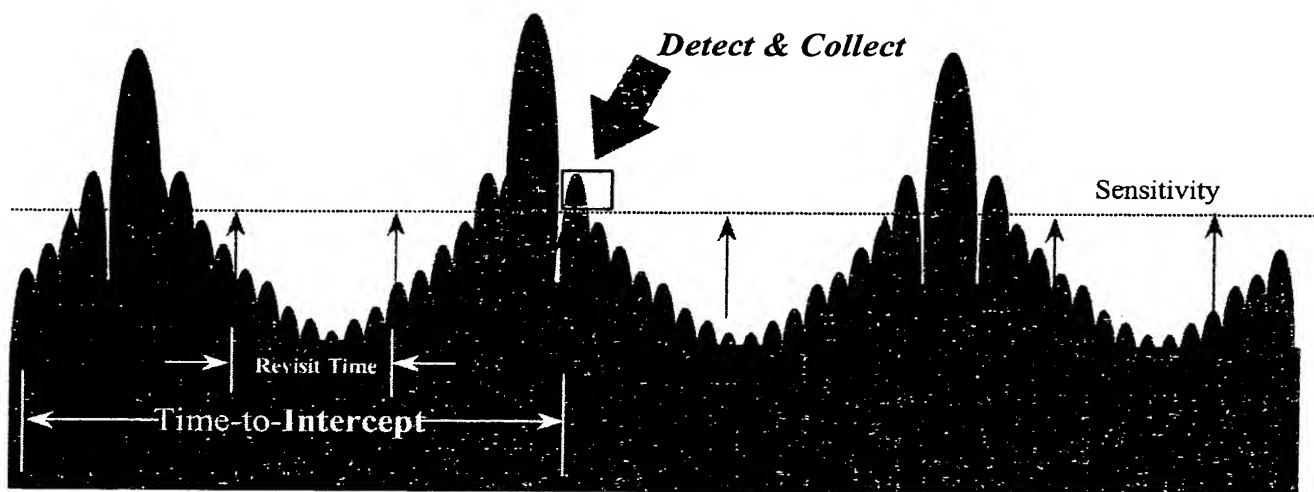


Figure 31

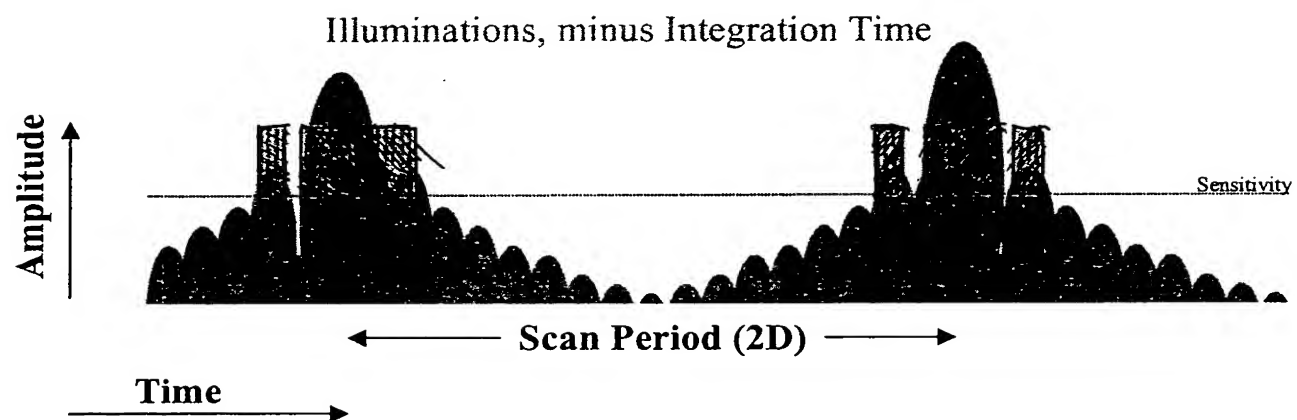


Figure 32